

Title (en)  
WIND TURBINE COMPRISING A TOWER PART OF AN ULTRA-HIGH PERFORMANCE FIBER REINFORCED COMPOSITE

Title (de)  
WINDTURBINE MIT TURMTEIL EINES ULTRAHOCHLEISTUNGSFÄHIGEN FASERVERSTÄRKTEN VERBUNDSTOFFES

Title (fr)  
TURBINE ÉOLIENNE COMPRENANT UNE PARTIE DE TOUR D'UN COMPOSITE RENFORCÉ DE FIBRE ULTRA HAUTE PERFORMANCE

Publication  
**EP 2834435 A1 20150211 (EN)**

Application  
**EP 12713581 A 20120404**

Priority  
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Abstract (en)  
[origin: WO2013149619A1] A wind turbine generator (1) is disclosed comprising a nacelle (7) and rotor (8), and a tower (2, 3, 5) between said nacelle and a foundation (4), wherein said tower comprises an ultra-high performance fiber reinforced composite (UHPFRC) tower part (3) extending from the foundation (4) and including at least four tower segments (13, 14, 15, 16) arranged on top of each other to form a column, and pre-tensioning steel strands or bars (22) for pre-tensioning said tower segments (13, 14, 15, 16) in a vertical direction, wherein said UHPFRC tower part (3) is made in a UHPFRC with a percentage of steel fibers per volume in the range of 0.5 to 9, such as 1 to 6, and preferably in the range of 2 to 4.

IPC 8 full level  
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Citation (search report)  
See references of WO 2013149619A1

Citation (examination)  

- US 2010132282 A1 20100603 - VOSS STEFAN [DE]
- THOMAS JAMES LEWIN ET AL: "Graduate Theses and Dissertations An investigation of design alternatives for 328-ft (100-m) tall wind turbine towers Recommended Citation", 1 June 2010 (2010-06-01), XP055301987, Retrieved from the Internet <URL:http://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=3262&context=etd> [retrieved on 20160913]

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DOCDB simple family (application)  
**DK 2012000035 W 20120404**; EP 12713581 A 20120404; US 201214390758 A 20120404; US 201715798288 A 20171030